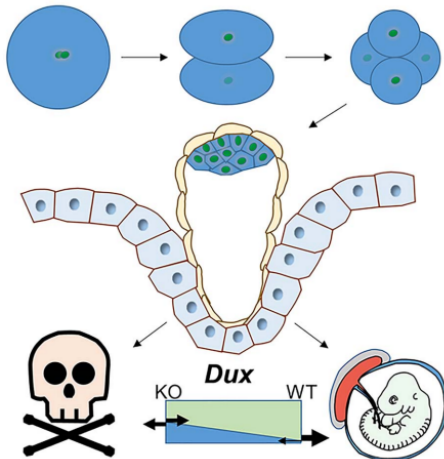




Conditional DUXC knockout mouse model

A conditional DUXC knockout mouse model for use as a basic research tool.



Technology ID

2023-164

Category

Life Sciences/Research Tools

[View online](#)



Applications

- Basic research tool

Technology Overview

Organism: *Mus musculus*, mouse

Background: C57BL/6

Product format: Live animals

Description: The Double homeobox (*Dux*) gene is a repeated gene array in humans and mice. In a C57BL/6 mouse background, this array was replaced with a single copy of the repeat containing the DUXC gene flanked by loxP sites at both ends. This created a conditional allele that can be deleted with Cre expression. Briefly, mouse *Dux* is not essential for viability or fertilization nor for zygotic genome activation, however the knockout embryos exhibit post-implantation development failures.

Phase of Development

TRL: 7-8

Conditional DUXC knockout mice have been generated, characterized, and published.

Desired Partnerships

This technology is now available for:

- License
- Sponsored research
- Co-development

Please contact our office to share your business' needs and learn more.

Researchers

- [Michael Kyba, PhD](#), Pofessor, Department of Pediatrics

References

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<https://academic.oup.com/biolreprod/article/104/1/83/5913241>, 104, 83-93